## GENERAL IRRIGATION NOTES

- AREAS ADJACENT TO THE EXISTING OAK TREES WILL REQUIRE A DRIP OR BUBBLER SYSTEM. NO SPRAY HEADS TO BE USED NEAR OAK TRUNKS.
- 2. NO MECHANICAL TRENCHING AROUND EXISTING OAK TREES OR OTHER TREES TO REMAIN.
- 3. ALL VALVES SHALL BE INSTALLED BELOW GRADE & IN VALVE BOXES.
- 4. VALVE BOXES SHALL BE BLACK.
- 5. FOR IRRIGATION NOTES AND DETAILS, SEE L-6.1
- 6. FOR COORDINATION WITH PLANTING PLAN SEE L-3.
- 7. PROVIDE 3/4" WATERLINE FOR FUTURE FOUNTAIN OR BIRD BATH.

## IRRIGATION ZONE CHART

			1
ZONE 10#	LOCATION	IRRIGATION METHOD  promounded from the beautiful fr	NOTES/ EQUIPMENT
1	Enclosed	Sp#y	"Reinblot" 4" Popupa
2	Wastawa	Sprey	'Ratellief &' Pop-upa
3	Planter Bardering Lawn Above Wall	Sprty	'Reinbird' & Popupe
4	Planter Bordering Lawn at House	Drip	Hard Pipe PVC to "Octa-Bubblers" with Poly Tubes to Plants, Octa-bubblers to Valve Senser
5	Planter Between Landings	Story	Rainties' 6' Popupe
6	Path Outside Master Bedriam	Spray	'Rainble' & Pap-upe
7	Planter Above Walt Curation Marter Bedroom	Sprey	'RainWed' &' Pop-ops
•	Planting Salow Resulting Well	Drip	Hard Pips PVC to "Octo-Bubblers" with Poly Tubes to Plants, Octo-bubblers in Valve Sexues
,	Placeling Above Existing Wood Relating Wall on Stope	Drip	Hard Pipe PVC to "Octa-Bubbless" with Poly Tubes to Plants. Octa-bubbless in Value Suzan
10	East Plants Above Well	Sprey	'Reinblof 6' Pop-ups
11	Planting Balow West Retaining Wall	tirip	Herd Pipe PVC to "Occa-Bubblers" with Poly Tubes to Plentz, Occa-bubblers in Valve Boxes

## IRRIGATION LEGEND

SYMBOL DESCRIPTION

P.O.C. POINT OF CONNECTION

BACKFLOW PREVENTER - FEBCO 825 Y

24 STATION CONTROLLER (IN GARAGE, LOCATION TO BE SET W/ OWNER & CONTRACTOR)

GATE VALVE

BALL VALVE - FOR MAIN LINE SHUT DOWN & REPAIR FUNCTIONS, INSTALL IN ROUND VALVE BOX

VALVE - SPRAY (WEATHERMATIC)

VALVE - DRIP

VALVE IDE

VALVE SIZE

OH HOSEBIBB LOCATION AND ID LETTER

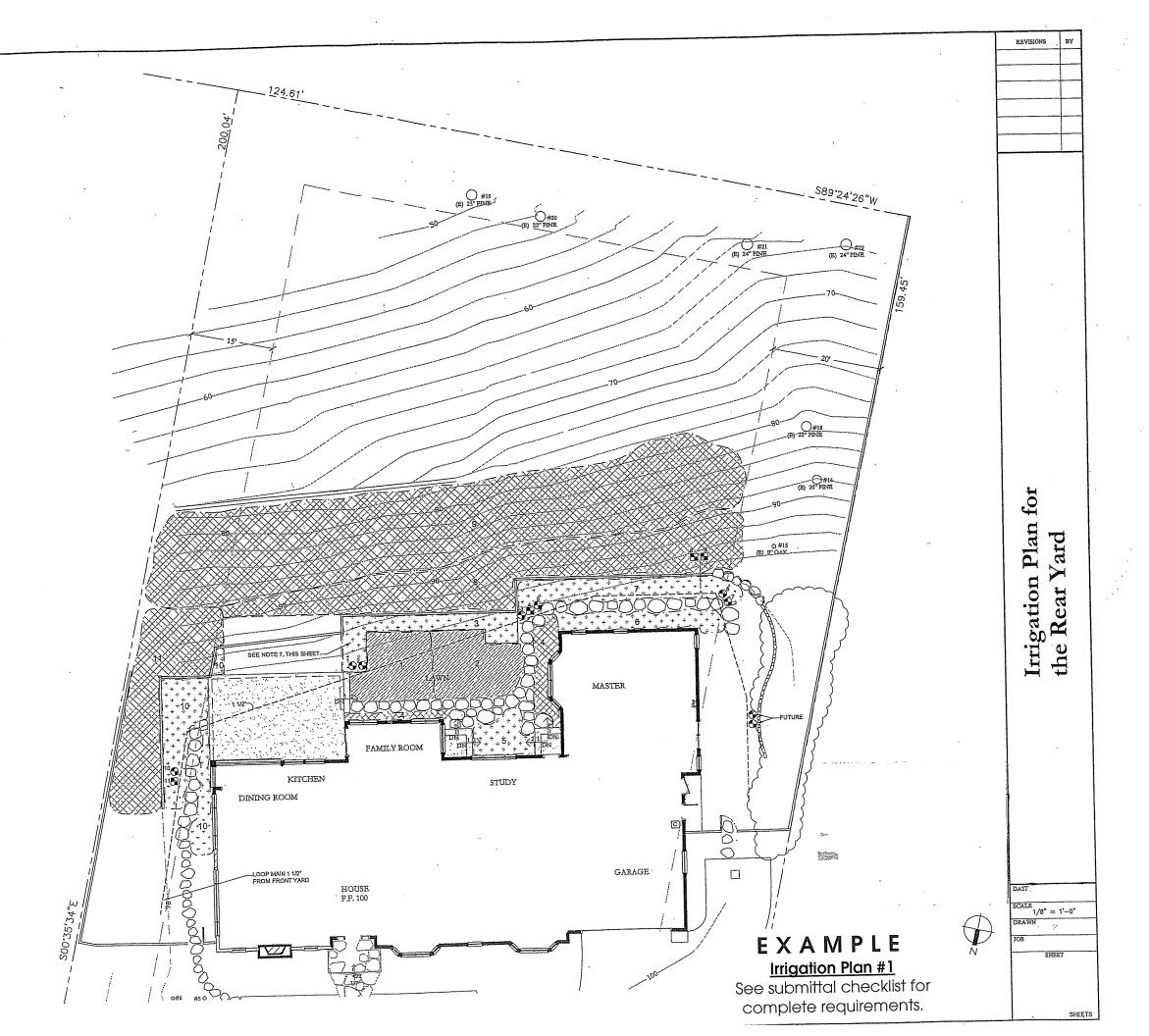
MAINLINE, SHOWN DIAGRAMMATICALLY ONLY, 2' SCHEOULE 40, SOLVENT-WELD, MIN BURY DEPTH 16', 24' DEPTH UNDER RAVMENTS.

SUB-MAIN, SCHEDULE 40 PVC TYP.

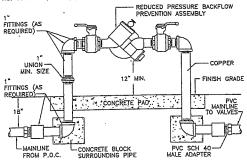
LATERALS RIOT SHOWN) (AIN 3/4' SIZE, CLASS

HYDRO-ZONE : SHRUB/PERENNIAL SPRAY



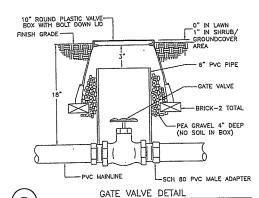




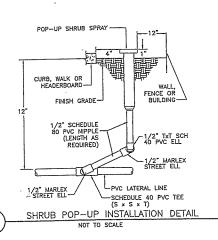


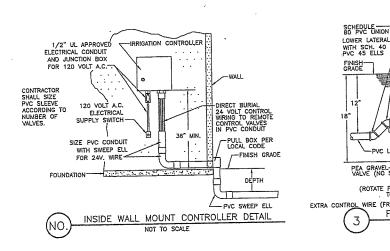
REDUCED PRESSURE BACKFLOW ASSEMBLY

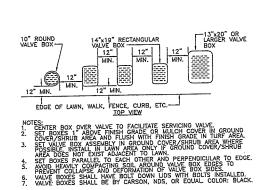
\* DETAIL SHOWN FOR CONDITIONS WHERE BATTERY-POWERED VALVE IS REQUIRED. - BATTERY OPERATED CONTROLLER 1. VALVE MUST BE INSTALLED MIN. 12" ABOVE HIGHEST SPRINKLER OR EMISSION POINT IT SUPPLIES. 2. APPLY TEFLON TAPE TO ) VALVE -WYF FILTER SCH. 80 PVC NIPPLE. LENGTH AS 12" MIN. REQUIRED (2) PVC MAINLINE ANTI—SIPHON VALVE INSTALLATION DETAIL WITH BATTERY OPERATED CONTROLLER

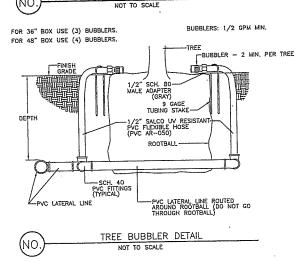


NOT TO SCALE

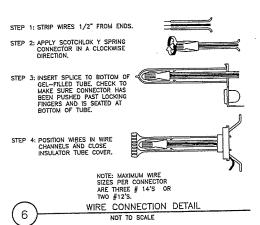








VALVE BOX INSTALLATION DETAIL



FILTER/REMOTE CONTROL VALVE DETAIL

PEA GRAVEL-4" DEEP BELOW-VALVE (NO SOIL IN VALVE BOX)

WIRE (FROM CONTROLLER)

3

. WYE FILTER (ROTATE FILTER PARALLEL TO PEA GRAVEL.) ALL VALVE BOXES: BLACK. - 13" x 20" VALVE BOX, ONE REMOTE CONTROL VALVE PER BOX.

-24 VOLT WIRE-PROVIDE WIRE CONNECTORS AT ALL SPLICES ALLOW 36" OF EXCESS WIRE

OF IN TURF AREA

IT IN SHRUB/
GROUNDCOVER AREA

VALVE -UNION PVC BALL VALVE

SCHEDULE 40 PVC TEE

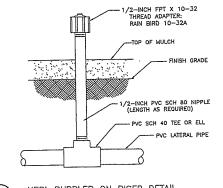
NOT TO SCALE \* WYE FILTER AT DRIP STATIONS ONLY

SCH. 80 PVC FITTINGS (AS REQUIRED)

BRICK ---(4-TOTAL)

PEMOTE CONTROL

-PVC MAINLINE



XERI-BUBBLER ON RISER DETAIL NOT TO SCALE

GENERAL IRRIGATION NOTES

1. THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.

2. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES TO THE TIME OF THE PROPERTY OF THE PROP RELATING TO HIS WORK.

3. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.

4. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

5. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER.

6. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED, THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.

7. ELECTRICAL CONTRACTOR TO SUPPLY 120 VAC (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB—OUT TO CONTROLLER. IRRIGATION CONTROL WIRE SHALL BE #14, U.L. APPROVED FOR DIRECT BURIAL. COMMON WIRE SHALL BE WHITE IN COLOR, WIRING TO INDIVIDUAL REMOTE CONTROL VALVES SHALL BE COLOR OTHER THAN WHITE.

8. EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.

9. REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SEQUENCE AS SHOWN ON PLANS. RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED.

10. SPLICING OF 24—VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.

11. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. FLAG VALVE LOCATIONS FOR SITE REVIEW BY LANDSCAPE ARCHITECT.

12. INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, ETC. (IF DESIRED BECAUSE THE AREAS ARE SMALL, TWO VALVES MAY BE INSTALLED IN ONE BOX.)

13. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.

14. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO DETAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES. PARTICLES FROM THE LINES.

15. WHEN VERTICAL OBSTRUCTIONS (STREET LIGHTS, TREES, FIRE HYDRANTS, ETC.)
INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER
COVERAGE, THE IRRIGATION CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY
INSTALLING A QUARTER, THIRD OR HALF CIRCLE HEAD AT THE SIDES OF THE OBSTRUCTION
SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO
ADDITIONAL COST TO THE OWNERS. ADDITIONAL COST TO THE OWNER.

16. NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS INSTRUCTIONS ARE OBTAINED.

17. LOCATE BUBBLERS ON UPHILL SIDE OF TREES.

18. IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.

19. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. CONTRACTOR TO OF WORK. ADDITIONALLY, CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR ASTED FIRM ACCEPTANCE OF WORK. AFTER FINAL ACCEPTANCE OF WORK.

20. DESIGN IS BASED ON THE FOLLOWING ASSUMPTIONS: 65 PSI/14 GPM. CONTRACTOR TO VERIFY THAT WATER SUPPLY MEETS OR EXCEEDS THIS PRESSURE AND FLOW. NOTIFY LANDSCAPE ARCHITECT IF SITE CONDITIONS DO NOT CONFORM.

21. IRRIGATION DEMAND: FIELD-VERIFY

22. IRRIGATION CONTRACTOR TO NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.

23. PRIOR TO TRENCHING, CALL UNDERGROUND SERVICE ALERT, (1-800) 227-2600 FOR

24. PROVIDE PRESSURE TEST FOR MAIN LINES

25. PROVIDE AS-BUILT DRAWING FOR VALUE AND MAIN LINE LOCATIONS.



Note etail gation Ă and III SCALE 1/8" = 1'-0" DRAWN

SHEETS

BY

REVISIONS

THIS DRAWING IS FOR CITY PURPOSES ONLY AND NOT FOR CONSTRUCTION OR BIDDING